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Cooper & Dunl	7590 07/02/200° ham LLP	EXAMINER		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
Office Action Summary		10/723,203	INADA, YOHICHI		
		Examiner	Art Unit		
		Sean Motsinger	2624		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address		
A SHI WHIC - Exter after - If NO - Failu Any I	ORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING Donsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period ver to reply within the set or extended period for reply with, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become AB ANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status					
2a) <u></u>	Responsive to communication(s) filed on <u>26 N</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Dispositi	on of Claims				
5)□ 6)⊠ 7)⊠	Claim(s) <u>1-37</u> is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>1-37</u> is/are rejected. Claim(s) <u>5-8, 16-19, 26-28 and 32-34</u> is/are ob Claim(s) are subject to restriction and/o	wn from consideration.			
Applicati	on Papers				
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>26 November 2007</u> is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	re: a) accepted or b) object drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).		
Priority (ınder 35 U.S.C. § 119				
12) ⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ⊠ All b) □ Some * c) □ None of: 1. ☑ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
2) Notice (3) Infor	ce of References Cited (PTO-892) the of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) the No(s)/Mail Date <u>03/08/2004</u> .	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate		

Objections to the Specification

1. The disclosure is objected to because of the following informalities: 35 U.S.C. 112, first paragraph, requires the specification to be written in "full, clear, concise, and exact terms." The specification is replete with terms which are not clear, concise and exact. The specification should be revised carefully in order to comply with 35 U.S.C. 112, first paragraph. Examples of some unclear, inexact or verbose terms used in the specification are: Scanning and searching are not used inconsistently throughout the specification and it is not clear if they are different or what they are referring to. For example "The valid coefficient (r13 with 1 value) initially searched by the inverse zigzag scan is modified to 0 (Steps 103 and 104). At the same time, the correction counter 23 is counted up from 0 to 1 (Step 104)" see page 18. But claim 1 claims a search operation and a scanning operation separately. Every use of scan(scanning scanned ect.) or search(searching searched ect.) must be explained or corrected in the specification and claims to clarify its meaning and an argument to show how such changes were disclosed in the specification as originally filed and how they relate to the searching and scanning in every claim which mentions searching or scanning. Also on page 19 of the specification it cites figure 4 and the r13 and r22 pixel which is not in figure 4. The terms isolated value coefficient is not found in the specification. Furthermore applicant states "a quantization table is used to locate the point where the valid coefficient exists" in page 22 and 23 of the specification one of ordinary skill in the art cannot would not know how to use a quantization table in this manor nor does it

describe how the circuits are "connected". Because of similar numerous errors the specification is not clear and it is difficult to understand the specification. The specification should be fully cheeked for errors and corrected so as one of ordinary skill in the art can understand it and it appropriately coincides with the claim language.

Objections to the Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the scanning and searching operations in claim 1, the first control mechanism and second control mechanism in claim 4, a drawing depicting the function of consecutively arranging of isolated valid coefficients in claim 5, the plurality logical OR circuits of claim 6, a plurality of logical or circuits equal to the number of the plurality of frequencies in claim 7, the connecting of the logical or circuits in claim 8, the step of performing an inverse zig zag scan, "to search a valid coefficient," and "continually performing an inverse zig zag scan," "counting a number of searched valid coefficients" and "modifying a subsequent serched valid coefficient to the invalid coefficient" in claim 23, the step of "when a valid coefficient is modified..." in claim 24, the presearching step in claim 25, the address moving step in claim 26, the calculating a total sum step in claim 27, the summing up step in claim 28 (note these features are also included in other claims) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

3. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Rejections Under 35 U.S.C. 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

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4. Claim 29-36 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. These claims are directed to a computer program, computer programs per se are non-statutory because they are abstract. To comply with 35 U.S.C. 101 the examiner suggests the language "a computer readable medium storing a computer program..."

Rejections Under 35 U.S.C. 112 First Paragraph

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- 5. Claims 1-37 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.
- 6. Re claim 1 and 12 the terms scanning and searching are used so inconsistently through out the claims and specification it is impossible to tell what exactly applicant intends by scanning and/or searching and how if all they are different. Claims 2-88 and 13-22 are rejected because they depend from these claims.

- 7. Re claim 4 and 15 the term "second control device" is only mentioned once in the specification in a word for word recitation of the claim and it is unclear what exactly it is or what exactly it is or what its purpose in the invention is.
- 8. Re claim 5 and 16 the term isolated valid coefficient is never really defines in the specification what an "isolated valid coefficient" is, or how the "address" is "moved" while the knowledge of which coefficient it is can be maintained while moving it. In fact almost all references to the isolated valid coefficient are mere recitations of claim language. To the understanding of the examiner the only real mention of if it is on page 19 of the specification where it cites figure 4 and the r13 and r22 pixel which is not in figure 4 which appears to have nothing to do with limitation.
- 9. Re claim 8 and 19, a quantization table is claimed in this claim yet applicant never seems to actually perform any quantization in his claimed invention.
 Furthermore applicant states "a quantization table is used to locate the point where the valid coefficient exists" in page 22 and 23 of the specification one of ordinary skill in the art cannot would not know how to use a quantization table in this manor nor does it describe how the circuits are connected.
- 10. Re Claim 23 29 35 and 36, in claim 1 scanning and searching are disclosed differently however here scanning and searching appear to be disclosed in as the same i.e. "performing an inverse zigzag scan for scanning the block register to

search a valid coefficient" one of ordinary skill in the art would not understand how searching and scanning can be different yet the same. Furthermore applicant discloses incrementing the number valid coefficients by one. It is unclear what is number of valid coefficients this is only mention in the specification as a repetition of claim language? Also the definition of searched valid coefficients and searched coefficients are not clear. One of ordinary skill in the art would not be able to determine if these are the same. Also it makes no sense the number of valid coefficients is incremented when a valid coefficient is changed to an invalid one. Claims 24-28 and 30-34 are rejected for depending from these claims.

- 11. Re claim 24 and 30 it is not clearly disclosed what applicant means by deleted. It is not know if this is different then changing from a valid to an invalid coefficient or in what sense it is deleted.
- 12. Re claim 25 and 31 applicant performs a presearching step before the search step. However it is not clear what the search step is (none is claimed in claim 23 or 29) and "presearching" is only mentioned in repetitions of the claims and nowhere is it clear what "presearching" how it is searching, what it is searching for or what is done if something is found.
- 13. Re claim 26 and 23 these claims have the same issues with isolated valid coefficients as claims 5 and 16

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14. The claims not mentioned are rejected for depending from these claims, and

referring to the non-enabled features.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

15. Claims 1-37 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. For the purposes of examination examiner will also interpret that "a searching operation" some how means selecting a coefficient.

16. Re claim 1 and 12 the terms scanning and searching are used so inconsistently through out the claims and specification it is impossible to tell what exactly applicant intends by scanning and/or searching and how if all they are different. For the purposes of examination examiner will also interpret that "a search operation" some how means a correcting or selecting a valid coefficient. Claims 2-88 and 13-22 are rejected because they depend from these claims.

- 17. Re claim 4 and 15 the term "second control device" is only mentioned once in the specification in a word for word recitation of the claim and it is unclear what exactly it is or what exactly it is or what its purpose in the invention is.
- 18. Re claim 5 and 16 the term isolated valid coefficient is never really defines in the specification what an "isolated valid coefficient" is, or how the "address" is "moved" while the knowledge of which coefficient it is can be maintained while moving it. In fact almost all references to the isolated valid coefficient are mere recitations of claim language. To the understanding of the examiner the only real mention of if it is on page 19 of the specification where it cites figure 4 and the r13 and r22 pixel which is not in figure 4 which appears to have nothing to do with limitation.
- 19. Re claim 8 and 19, a quantization table is claimed in this claim yet applicant never seems to actually perform any quantization in his claimed invention.

 Furthermore applicant states "a quantization table is used to locate the point where the valid coefficient exists" in page 22 and 23 of the specification one of ordinary skill in the art cannot would not know how to use a quantization table in this manor nor does it describe how the circuits are connected.
- 20. Re Claim 23 29 35 and 36, in claim 1 scanning and searching are disclosed differently however here scanning and searching appear to be disclosed in as the same i.e. "performing an inverse zigzag scan for scanning the block register to

search a valid coefficient" one of ordinary skill in the art would not understand how searching and scanning can be different yet the same. Furthermore applicant discloses incrementing the number valid coefficients by one. It is unclear what is number of valid coefficients this is only mention in the specification as a repetition of claim language? Also the definition of searched valid coefficients and searched coefficients are not clear. One of ordinary skill in the art would not be able to determine if these are the same. Also it makes no sense that the number of "valid coefficients" is incremented when a valid coefficient is changed to an invalid one. Furthermore it is not know what is meant by "the collection level," it is believed that is it meant to be the "correction level." For the purposes of examination examiner will also interpret that "a searched valid coefficient" some how means a corrected or selected valid coefficient. Claims 24-28 and 30-34 are rejected for depending from these claims.

- 21. Re claim 24 and 30 it is not clearly disclosed what applicant means by deleted. It is not known if this is different then changing from a valid to an invalid coefficient or in what sense it is deleted. Examiner is interpreting changing from a valid to an invalid coefficient to be deleting.
- 22. Re claim 25 and 31 applicant performs a presearching step before the search step. However it is not clear what the search step is (none is claimed in claim 23 or 29) and presearching is only mentioned in repetitions of the claims and nowhere is it

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clear what presearching how it is searching, what it is searching for or what is done if something is found. For purposes of applying prior art examiner is interpreting claim 25 not to include the presearching step.

- 23. Re claim 26 and 32 these claims have the same issues with isolated valid coefficients as claims 5 and 16
- 24. The claims not mentioned above are rejected for depending from the above rejected claims.

Rejections Under 35 U.S.C. 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 25. Claims 1-3, 9-10, 12-14, 20-21 are rejected under 35 U.S.C. 102(e) as being anticipated by Mukherjee US 2003/0123740.
- 26. Re claim 1 Mukherjee discloses An information compression apparatus which compresses information and uses a DCT frequency conversion algorithm,

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comprising: a plurality of block registers which store (note the data must be stored so that further processing can be done see paragraph 41) block based multi-bit quantized data (note the data is quantized see paragraph 41) converted from the information output from an quantization execution module (quantize paragraph 38); a correction level register which presets a correction level (predetermined threshold paragraph 79) indicating a degree of data correction (enegy paragraph 79); a first control (note the system must have controller) mechanism which controls so as to perform a scanning operation for scanning (reverse zig-zag scanning paragraph 55) each block of the plurality of block registers and a search operation (finding a coefficient paragraph 57) for searching a block having a valid coefficient (non-zero coefficient paragraph 57); and a data correction mechanism which corrects data (modifies paragraph 30) to modify the valid coefficient (non-zero coefficient paragraph 30) of the block searched by the first control mechanism to an invalid coefficient (zero coefficient see paragraph 30) based on the correction level started in the correction level register (energy threshold paragraph 79).

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- 27. Re claim 2 Mukherjee further discloses wherein the valid coefficient is a coefficient having any coding amount except zero (not zero paragraph 57).
- 28. Re claim 3 Mukherjee further discloses wherein the scanning operation includes an inverse zigzag operation (see paragraph 55.)

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29. Re claim 9 Mukherjee further discloses the information compression apparatus as defined in claim 1, wherein the apparatus uses a Huffman coding method (jpeg paragraph 31 note JPEG compression includes Huffman coding).

- 30. Re claim 10 Mukherjee further discloses wherein the apparatus uses a JPEG coding method (see paragraph 31).
- 31. Re claim 12-14 and 20-21 these claims are similar to claims 1-3 and 9-10 only using means for language however the claims recite is sufficient structure in the claim such that 35 U.S.C. 112 6th paragraph is NOT invoked. Furthermore due to similarity these claims are rejected for the same reasons as claims 1-3 and 9-10.

Rejections Under 35 U.S.C. 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 32. Claims 4, 15 and 23-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mukherjee in view of Kim US 5,793,893.

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33. Re claim 4 Mukherjee discloses all of the elements of claim 1 Mukherjee does not disclose further comprising a second control device which receives multi bit quantized data output from the quantized execution module before the multi-bit quantized data is transmitted to the plurality of block registers and causes the first control mechanism to start the search operation. While Mukherjee must have at least one control device, Kim discloses a system with 2 control devices, i.e. a second control device (note the system must have some main controller) which receives multi bit quantized data output from the quantized execution module before the multi-bit quantized data is transmitted to the plurality of block registers and causes the first control mechanism (masking control see figure 1 note this controller controls only the masking i.e. the scanning and selecting steps see claim 4) to start the search operation. The motivation to combine is to "reduce the volume of transmission data in order to efficiently implement a low-bit rate codec" (see column 2 lines 10-15.) Therefore it would have been obvious to one of ordinary skill in the art to combine Mukherjee with Kim to reach the aforementioned advantage.

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34. Re claim 15 this claim is similar to claim 4 only using means for language however the claims recite is sufficient structure in the claim such that 35 U.S.C. 112 6th paragraph is NOT invoked. Furthermore due to similarity these claims are rejected for the same reasons as claims 4.

- 35. Re claim 23 Mukherjee discloses an information compression method for compressing information and using a DCT frequency conversion algorithm, comprising the steps of: presetting a predetermined correction level indicating a degree of data correction (energy threshold see paragraph 71); latching quantized data including valid coefficients and invalid coefficients into a block register (note the quantized coefficients must be stored to perform further processing; performing an inverse zigzag scan (see paragraph 57) for scanning the block register to search a valid coefficient (find the first coefficient not quantized to zero paragraph 57): modifying an initially searched valid coefficient to an invalid coefficient (push the coefficient to zero paragraph 57); modifying a subsequent searched valid coefficient to the invalid coefficient (process is repeated paragraph 61); continuously performing the inverse zigzag scan when correction is smaller than the correction level in the presetting step (continuing until the threshold is exceeded paragraph 79); and transferring the data of the block register to a coding module (encoder paragraph 59) when the correction counter value reaches the correction level (note the coding is done after the modification).
- 36. Mukherjee does not disclose counting a number of searched valid coefficients; incrementing the number of valid coefficients by one; and where the correction level is the number of searched (examiner interprets as modified) coefficients counted in the counting step.
- 37. Kim discloses counting a number of searched (examiner interprets as modified) valid coefficients (see claim 4 note that the number of coefficients set to zero must

be counted); incrementing the number of modified valid coefficients by one (see claim 4 note number of converted coefficients must be counted); and where the correction level is the number of searched (examiner interprets as modified) coefficients counted in the counting step (see claim 4 note the number of coefficient set to zero is determined by a predefined number M).

- 38. The motivation to combine is to "reduce the volume of transmission data in order to efficiently implement a low-bit rate codec" (see column 2 lines 10-15.) Therefore it would have been obvious to one of ordinary skill in the art to combine Mukherjee with Kim to reach the aforementioned advantage.
- 39. Re claim 24 Mukherjee further discloses wherein when a valid coefficient is modified to an invalid coefficient in the modifying steps, valid coefficients smaller than a predetermined threshold value are deleted. (Note in examiners interpretation modifying a valid coefficient to an invalid one inherently is deleting it.)
- 40. Re claim 25 since examiner has interpreted claim 5 to not include a presearching step due to the unclear claim there is no further limitation from claim 23 and claim 25 is rejected with the same rejection.
- 41. Claims 29-31 and 35 and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mukherjee in view of Kim in further view of common knowledge in the art.

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42. Re claims 29-31 these claims recite computer code to perform the method of claims 23-25. Mukherjee and Kim disclose the method of claims 23-25 but does not disclose the method of claims 23-25 preformed via a computer program, however, examiner is taking official notice that it is notoriously well known to perform such methods in a computer program and store them on CD's. The motivation to combine is to easily distribute perform such methods on a device with a computer processor. Therefore it would have been obvious to one of ordinary skill in the art to combine Mukherjee and Kim with common knowledge in the art to reach the aforementioned advantage.

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43. Re claims 35 these claims recite computer code to perform the method of claims 23 and using a JPEG encoding method. Mukherjee and Kim disclose the method of claims 23 and JPEG (see paragraph 31) but does not disclose the method of claims 23 preformed via a computer program, however, examiner is taking official notice that it is notoriously well known to perform such methods in a computer program and store them on CD's. The motivation to combine is to easily distribute perform such methods on a device with a computer processor. Therefore it would have been obvious to one of ordinary skill in the art to combine Mukherjee and Kim with common knowledge in the art to reach the aforementioned advantage.

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44. Re claim 37 this claim stores a computer program to perform the method of claim 23 on a computer readable medium. Mukherjee and Kim disclose the method of claims 23 but does not disclose the method of claims 23preformed via a computer program, however, examiner is taking official notice that it is notoriously well known to perform such methods in a computer program and store them on CD's. The motivation to combine is to easily distribute perform such methods on a device with a computer processor. Therefore it would have been obvious to one of ordinary skill in the art to combine Mukherjee and Kim with common knowledge in the art to reach the aforementioned advantage.

- 45. Claims 11 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mukherjee in view of Dick US 6,460,061
- 46. Re claim 11 Mukherjee discloses all of the elements of claim 1 Mukherjee does not disclose wherein the apparatus uses a sound data coding method. However Dick discloses wherein the apparatus uses a sound data coding method (column 7 lines 40-50.) Note that dick discloses that the 2D DCT can be used to encode sound, therefore one of ordinary skill in the art would be motivated to use the method of Mukherjee to compression sound at a reduced bit rate see Mukherjee paragraph 30. Therefore it would have been obvious to one of ordinary skill in the art to combine Mukherjee with Dick to reach the aforementioned advantage

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47. Re claim 22 this claim is similar to claim 11 only using means for language,e however the claims recite is sufficient structure in the claim such that 35 U.S.C. 112 6th paragraph is NOT invoked. Furthermore due to similarity these claims are rejected for the same reasons as claims 11.

- 48. Claim 36 is rejected under 35 U.S.C. 103(a) as being unpatentable over

 Mukherjee in view of Kim in view in view of common knowledge in the art in further view of Dick.
- 49. Re claim 36 This claim is the same as claim 29 exept for this time a sound data coding method is used. Mukherjee Kim and common knowledge in the art discloses all of the elements of claim 29 (see rejection for claim 29), they does not disclose wherein the apparatus uses a sound data coding method. However Dick discloses wherein the apparatus uses a sound data coding method (column 7 lines 40-50.)

 Note that dick discloses that the 2D DCT can be used to encode sound, therefore one of ordinary skill in the art would be motivated to use the method of Mukherjee to compression sound at a reduced bit rate see Mukherjee paragraph 30. Therefore it would have been obvious to one of ordinary skill in the art to combine Mukherjee with Dick to reach the aforementioned advantage.

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Allowable Subject Matter

50. Claims 5-8, 16-19 26-28 and 32-34 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 1st and 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

- 51. Re claims 5,16, 26, 32 these claims contain allowable subject matter because the prior art of record does not "move the addresses of the isolated valid coefficients... so that the isolated valid coefficients are arranged consecutively"
- 52. Re claims 6 and 17 these claims contain allowable subject matter because the prior art of record does not disclose "a plurality of logical or circuits.... Such that each of the plurality of or circuits outputs one when any one of the block registers connected thereto has a valid coefficient." Claims 7-9 and 18-19 contain allowable subject matter because they depend from claims 6 and 17.
- 53. Re claims 27 and 33 these claims contain allowable subject matter because the prior art of record does not disclose a "calculating step for calculating a total sum of coefficients of block registers arranged along each scanning line corresponding to one of different frequencies used in the DCT frequency conversion algorithm, and a start address changing step for changing an address of the block register to start the

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inverse zigzag scan." Claims 28 and 34 contain allowable subject matter because they depend from these claims

Requirement for Information

- 54. The examiner believes the requirement of the following information is reasonable and pertinent to the examination of the application:
- 55. If this application claims priority to another application, has there been a prior rejection regarding the merits of any application to which this application claims priority? (Please respond yes or no.) If yes please include a copy of all such rejections in response to this action and include in an information disclosure statement including any references it cites.
- 56. If this application claims priority to another application, has there been any search done by this office or any foreign patent office for any application to which this application claims priority? (Please respond yes or no) If yes please include a copy of the search results and include in an information disclosure statement including any references it cites.
- 57. If any objections to features missing from the drawing were included please include a section in applicant's response indicating specifically what figure and what

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element number depicts each feature objected too regardless of whether applicant has amended the drawings or argued that the required features are shown.

- 58. If applicant makes any amendments to the specification have been made please include a section in applicant's response indicating what figures and element numbers, and/or page and line numbers where applicant believes support for each feature of the amendment can be found.
- 59. If applicant makes any amendments to the claims have been made please include a section in applicant's response indicating what figures and element numbers, and/or page and line numbers applicant believes support for each feature of the amendment can be found.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sean Motsinger whose telephone number is 571-270-1237. The examiner can normally be reached on 9-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jingge Wu can be reached on (571)272-7429. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Motsinger 6/21/2007

SUPERVISORY PATENT EXAMINER